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page 31, above line 1; page 32, above line 1; page 33, above line 1; page 34, above line 1; page 35, above line 1; page 36, above line 1; page 37, above line 1; page 38, above line 1; page 39, above line 1; page 40, above line 1; page 41, above line 1; page 42, above line 1; page 43, above line 1; page 44, above line 1; page 45, above line 1; page 46, above line 1; page 47, above line 1; page 48, above line 1; page 49, above line 1; page 50, above line 1; page 51, above line 1; page 52, above line 1; page 53, above line 1; page 54, above line 1; page 55, above line 1; page 56, above line 1; page 57, above line 1; page 58, above line 1; page 59, above line 1; page 60, above line 1; page 61, above line 1; page 62, above line 1; page 63, above line 1; page 64, above line 1; page 65, above line 1; page 66, above line 1; page 67, above line 1; page 68, above line 1; page 69, above line 1; page 70, above line 1; page 71, above line 1; page 72, above line 1; page 73, above line 1; page 74, above line 1; page 75, above line 1; page 76, above line 1; page 77, above line 1; page 78, above line 1; page 79, above line 1; page 80, above line 1; page 81, above line 1; page 82, above line 1; page 83, above line 1, page 84, above line 1, and page 85, above line 1, replace the number "TRAN1-122" with the number -- P-457 --.

In the Claims

Cancel claims 1-33.

Add new claims 34-73:

34. A method for enhancing the detection of a polynucleotide separated by reversed phase ion pairing chromatography, said method comprising:
- a) covalently attaching a chemical tag to said polynucleotide to form a tagged polynucleotide,
 - b) applying said tagged polynucleotide to a separation medium having a non-polar surface, wherein said medium is substantially free of multivalent cations capable of interfering with polynucleotide separation,
 - c) eluting said tagged polynucleotide from said surface with a mobile phase containing a counterion agent and an organic solvent, and
 - d) detecting said tagged polynucleotide.